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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/760,024

01/15/2004

Craig H. Barratt

ATH-0116

8508

30547 7590 02/26/2009  
BEVER HOFFMAN & HARMS, LLP  
2099 GATEWAY PLACE  
SUITE 320  
SAN JOSE, CA 95110

EXAMINER

FOUD, HICHAM B

ART UNIT

PAPER NUMBER

2419

MAIL DATE

DELIVERY MODE

02/26/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<i>Office Action Summary</i>	Application No.	Applicant(s)	
	10/760,024	BARRATT ET AL.	
	Examiner	Art Unit	
	HICHAM B. FOUD	2419	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 12/15/2009.
- 2a) ☒ This action is FINAL.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 50,53,57 and 61 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 50,53,57 and 61 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Response to Amendment*

1. Claims 50, 53, 57 and 61 are pending in this application.  
Claims 1-49, 51-52, 54-56, 58-60 and 62-67 have been canceled.  
Claims 50, 53, 57 and 61 remain rejected as discussed below.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 50, 53 and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jayaraman et al. (US 6,963,549) and in view of Siloti (US 5,742,239).

As per claim 50, Jayaraman et al clearly discloses that a method of minimizing collisions in a CSMA/CA wireless data communication system using an access point, the method comprising: sensing the presence of a client desirous of communication with the access point (See Fig. 1, a local station 20 may request (block 61 of FIG. 2) that a particular bandwidth be reserved for a given traffic type over a defined period of time, column 2, lines 66-67 to column 3, line 1); allocating a start time slot list having at least one unique start time slot during which the client may begin transmitting (The central authority is used to selectively reserve the time slot based on at least in part a

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reservation schedule, column 1, lines 60-62); transmitting the start time slot list to the client (indicates the reserved time slot in the frame that is transmitted (block 78) to the requesting station, column 3, lines 11-16); and receiving a transmission from the client, the transmission beginning only during the start time slot(s) indicated by the start time slot list (If the central authority reserves the time slot, then during the time slot, the central authority prevents the other local stations from transmitting (column 1, lines 62-64).

Jayaraman et al. substantially shows and discloses all the claimed invention. However, Jayaraman et al. does not teach wherein allocating includes: assigning at least one pair of a high-priority start time slot and a low-priority start time slot substantially equally displaced in time from a center start time slot. In the same field of endeavor, Siloti teaches wherein allocating includes: assigning at least one pair of a high-priority start time slot and a low-priority start time slot (see column 2 lines 39-49; wherein a node is assigned time slot 4 as in Figure 3 in both High and Low priority and transmit in either one depending on the current priority of the node) substantially equally displaced in time from a center start time slot (e.g. see Figure 3 wherein time slot 4 in the high and low are substantially equally displaced in time from a center start time slot 0 in the low). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention to combine the teaching of Jayaraman et al. with the teaching of Siloti in order to achieve Quality of Service in communications in which signal delays or interruptions cannot be tolerated.

Claims 53 and 61 are rejected for same reasons as claim 50.

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4. Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jayaraman et al in view of Siloti as applied to claims 50, 53, 61 above, and further in view of Iwamura (US 7,206,320).

As per claim 57, Siloti further discloses as mentioned in claim 50 or 53 that the selection between the high priority start time slot and the low priority start time slot is based on the current priority of the node (see column 2 lines 39-49; wherein a node is assigned time slot 4 as in Figure 3 in both High and Low priority and transmit in either one depending on the current priority of the node). Jayaraman et al in view of Siloti discloses all the subject matter with the exception of explicitly disclosing that the selecting between the time slots is based on a randomizing function. However, Iwamura et al. teaches that the selecting between time slots is based on a randomizing function (Column 2 lines 11-14). Thus, it would have been obvious to the one skill in the art at the time of the invention to use the randomizing function as taught in Iwamura into the method of Jayaraman et al in view of Siloti for the purpose of avoiding collision by setting a randomized wait time so that two waiting devices do not collide.

#### Response to Argument

5. Applicant's arguments filed under Remarks have been fully considered but they are not persuasive.

In regards of claims 50, 53, 57 and 61, Applicant repeatedly argues that Siloti does not teach "assigning at least one pair of a high-priority start time slot and a low-priority start time slot substantially equally displaced in time from a center start time slot". Examiner notes that the Remarks (page 6) lack arguments in regard of

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the above limitation since the Applicant did not discuss the references applied against the claims, explaining how the claims avoid the references or distinguish from them. Moreover, the Examiner respectfully disagrees; the feature of the broadly claimed limitation listed above is clearly met by Siloti. Siloti explicitly designates the assignment of at least one pair of a high-priority start time slot and a low-priority start time slot (see column 2 lines 39-49; wherein a node is assigned time slot 4 as in Figure 3 in both High and Low priority and transmit in either one depending on the current priority of the node) substantially equally displaced in time from a center start time slot (e.g. see Figure 3 wherein time slot 4 in the high and low are substantially equally displaced in time from a center start time slot 0 in the low). Siloti does not choose to use his own lexicography to designate the assignment of the at least one pair of a high-priority start time slot and a low-priority start time slot substantially equally displaced in time from a center start time slot. However, the steps performed by Siloti are the same regardless to the terminology used.

### *Conclusion*

6. Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed

by the Examiner. In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

When responding to this office action, applicants are advised to clearly point out the patentable novelty which they think the claims present in view of the state of the art disclosed by the references cited or the objections made. Applicants must also show how the amendments avoid such references or objections. See 37C.F.R 1.111(c). In addition, applicants are advised to provide the examiner with the line numbers and pages numbers in the application and/or references cited to assist examiner in locating the appropriate paragraphs.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HICHAM B. FOUD whose telephone number is (571)270-1463. The examiner can normally be reached on Monday - Friday 10-6 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hicham B Foud/  
Examiner, Art Unit 2419  
02/18/2009

/Wing F. Chan/  
Supervisory Patent Examiner, Art Unit 2419  
2/23/09